

WOODWORKING TECHNOLOGY: FURNITURE MAKING (CERT)

CERTIFICATE OF ACHIEVEMENT

The Furniture Making program option prepares students for employment in the woodworking industry, primarily in custom furniture shops. Through courses focusing on tables, casegoods, and other forms, students learn how to use traditional woodworking machinery and hand tools. Core topics include furniture design and finishing. Electives include advanced casegoods, advanced tables, advanced hand-tool topics, veneering, and SketchUp. Graduates are employed as furniture makers, general woodworkers, or are self-employed. Spatial intelligence, cognitive ability, and eye-hand coordination are recommended for those entering the program.

Program Student Learning Outcomes

- Students safely and confidently use woodworking tools and equipment to build a furniture project.
- Students utilize hand tools to augment machine tools used in constructing a furniture project.
- Students build several furniture projects to meet the requirements of specified planning documents.
- Students prepare and present a design portfolio, including concept sketches, scale drawings, and a scale model and/or full-sized drawing of several furniture projects.

Program Requirements

Full-time students may take option one or Part-time students may take option two.

Option One: Full-Time Students (24.5 Units)

Code Number	Course Title	Units
Required Core Courses		
WMT 101	Introduction to Woodworking	3.0
WMT 171A	Introduction to Tables and Woodworking Hand Tools	6.5
WMT 171B	Topics in Cabinetmaking	6.5
WMT 171C	Woodworking Design and Fabrication	6.5
WMT 171L	Furniture Intensive Lab	2.0
Total Units		24.5

Option Two: Part-Time Students (27 Units)

Code Number	Course Title	Units
WMT 101	Introduction to Woodworking	3.0
WMT 102	Introduction to Solid Wood Casegoods	4.0
WMT 103	Introduction to Tables	4.0
WMT 130	Furniture Design	4.0
WMT 184	Introduction To Digital Fabrication	4.0
WMT 201	Woodworking with Hand Tools	4.0
Subtotal		23
Choose from the following for a minimum of four (4) units:		4.0
WMT 100	Woodworking Essentials (2)	

WMT 107	Wood Finishing (3)
WMT 108	Wood Carving for Furniture (2.5)
WMT 117	Woodworking Appreciation (1)
WMT 118	Introduction to Woodturning (2)
WMT 123	Decorative Boxes (4)
WMT 126	History of Furniture Design (3)
WMT 135	Windsor Chair (4)
WMT 144	Jigs and Fixtures (2)
WMT 151	Introduction to Faceframe Cabinetmaking (4)
WMT 180	Running A Woodworking Business (3)
WMT 182	Alphacam and the CNC Router (4)
WMT 183	SketchUp for Woodworkers (3)
WMT 187	Woodworking Machine Maintenance and Repair (1.5)
WMT 202	Advanced Furniture Casegoods (4)
WMT 204	Advanced Tables (4)
WMT 205	Veneering and Marquetry (4)
WMT 221	Advanced Handtools-Handplanes (2)
WMT 222	Advanced Handtools - Joinery (2)
WMT 224	Advanced Handtools - Dovetails (2)
WMT 231	Outdoor Seating (4)
WMT 232	Chair Design and Construction (4)
WMT 233	Morris Chair (4)
WMT 237	Traditional American Furniture (4)
WMT 245	Curved and Tapered Forms for Furniture (4)
WMT 246	Sculptural Chair (4)

Recommended Electives

Code Number	Course Title	Units
WMT 107	Wood Finishing	3.0
WMT 187	Woodworking Machine Maintenance and Repair	1.5
WMT 202	Advanced Furniture Casegoods	4.0
WMT 204	Advanced Tables	4.0
WMT 205	Veneering and Marquetry	4.0